## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicant:

Peter ASSAF et al

Serial No.;

10/555,664

Filed:

November 4, 2005

For:

NITRIC OXIDE DONORS AND USES THEREOF

Examiner:

Not yet Assigned

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Group Art Unit: 1614

Attorney

*\$* 

Docket: 30724

# **INFORMATION DISCLOSURE STATEMENT**

Sir:

Enclosed is a PTO Form 1449 which lists citations which may be material to the patentability and examination of the above identified application. Also enclosed are copies of the references cited. These are submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. The Examiner is requested to make these citations of official record in this application.

This Information Disclosure Statement under 37 CFR 1.56 is not to be construed as a representation that a search has been made, that additional matter which is material to the examination of this application does not exist, or that any or more of these citations constitutes prior art.

Respectfully submitted,

Martin D. Moynihan

Registration No. 40,338

Dated: February 25, 2007

### PTO/SB/08a (08-03)

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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	Complete if Known			
	Application Number	10/555,664		
	Filing Date	November 4, 2005		
	First Named Inventor	Peter ASSAF et al		
	Art Unit	1614	-	
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Sheet		1	of	2	Attorney Docket Number	30724
_	t_		٠.	U.S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. 1	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	ļ	Number-Kind Code <sup>2 (if kn</sup>				
	1	US-2005/0137191		06-23-2005	Thatcher et al.	
	2	US-6,310,052		10-30-2001	Thatcher et al.	
-	3	US-5,883,122		03-16-1999	Thatcher et al.	
	4	US-5,807,847		09-15-1998	Thatcher et al.	
	5	US-2002/0177622	-	11-28-2002	Thatcher et al.	
	6	US-6,916,835		07-12-2005	Thatcher et al.	
•	7	US-09/473,713		12-29-1999	Thatcher et al.	
	8	US-5,404,871		04-11-1995	Goodman et al.	
	9	US-5,542,410		06-6-1996	Goodman et al.	
	10	US-5,874,063		02-23-1999	Briggner et al.	
	11	US-5,983,956		11-16-1999	Trofast	
-	12	US-6,221,398		04-24-2001	Jakupovic et al.	
	13	US-6,268,533		07-31-2001	Gao et al.	
	14	US-6,566,324		05-20-2003	Nadel et al.	
	15	US-6,571,790		03-3-2003	Weinstein	
	16	US-6,637,430		10-28-2003	Voges et al	
	17	US-6,652,323		11-25-2003	Yanda	
	1	1				

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. 1	Foreign Patent Documents  Country Code <sup>3</sup> · Number <sup>4</sup> · Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6	
	18	PCT WO 01/49275	07-12-2001	Thatcher et al.		L	
	19	PCT WO 03/086282	10-23-2003	Fang et al.			
-	20	PCT WO 00/30614	02-2-2000	Bisrat et al.			
	21	PCT WO 99/55319	04-4-1999	Cooper		$\vdash$	
					-	$\vdash$	
Examiner Signature				Date Considered			

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Substitute for form 1449A/PTO			Application Number	10/555,664		
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			Examiner Name	Not Yet Assigned		
Sheet	2	Of 2	Attorney Docket Number	30724	<del> </del>	
		OTHER PRIOR ART – NON PATEN	T LITERATURE DOCU			
Examiner	Cite	Include name of the author (in CAPITAL LETTERS)	, title of the article (when appro	priate), title of the		
Initials	No.1	item (book, magazine, journal, serial symposium, cat publisher, city and/or cou	alog, etc.) date, page(s), volume ntry where published.	e-issue number(s),	T <sup>2</sup>	
	22	Kumar et al. "Design, Synthesis, and Evalua				
		Lactamase Inhibitors", Bioorganic & Medici				
	23	Cavicchi et al. "Inhibition of Inducible Nitric				
Epithelial Cell Line, DLD-1, by the Inducers of Heme Oxygenase 1, Bismuth Salts,						
Heme, and Nitric Oxide Donors", GUT, 47(6): 771-778, 2000. Abstract.						
	24	meliorates Dextran Sulfa	te Sodium-			
Induced Colitis in Mice", Laboratory Investigation, 82(5): 597-607, 2002. Abstract,						
		P.602, Col.1, Lines 3-19.				
	25	Ueda et al. "Structure-Activity Relationships	of 2-Aminothiazole Dei	rivatives as		
Inducible Nitric Oxide Synthase Inhibitor", Chemical & Pharmaceutical Bulletin, 52(5): 634-637, 2004. Abstract, P.634, Col.2, Last Line - P.635, Col.1, Line 2, Table						
2, Expls. 5a, 5b, 7, P.636, Col.1, Lines 17-18, 25-39.						
	2, Expls. 3a, 3b, 7, 1.030, Col.1, Ellies 17-16, 23-37.  Münzel et al. "Evidence fpr Enhanced Vascular Superpxide Anion Production", The					
Journal of Clinical Investigation, 95: 187-194, 1995.				,		
	27			etabolism to		
Chung et al. Identification of the Subcellular Site for Nitroglycerin Metabolism to Nitric Oxide in Bovine Coronary Smoth Muscle Cells", The Journal of Pharmacology and Experimental Therapeutics, 253(2): 614-619, 1990.						
	28	McGuire et al. "Inhibition of NADPH-Cytoo		nd Glyceryl		
	20	Trinitrate Biotransformation by Diphenylene				
		Pharmacology, 56: 881-893, 1998.	, and the same of			
	29	Needleman et al. "Sulfhydryl Requirement for	or Relaxation of Vascular	r Smooth		
	29					
Muscle", The Journal of Pharmacology and Experimental Therapeutics, 187(2): 331, 1973.  Bueb et al. "Natural Polyamines Stimulate G-Proteins", Biochemical Journal, 20				55, 10, (2). 52.		
				Journal 282:		
	30	545-550, 1992.	1-1 Totems, Biochemical	Journal, 202.		
	21	Loscalzo "N-Acetylcysteine Potentiates Inhi	hition of Platelet Aggrega	ation by		
	31			ation by		
	122	Nitroglycerin", Journal of Clinical Investiga	11011, 70. 703-700, 1983.	utathiana S		
	32	Kurz et al. "Nitroglycerin Metabolism in Va				
		Transferases and Relationship Between NO	and NO2-Formation", Bi	ochemical		
		Journal, 292: 545-550, 1993.				
4						

Signature	Considered	

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